# Project Audit



**Project:**

## HedgePay

February 4, 2022

# Overview

This audit has been prepared for **HedgePay** to review the main aspects of the project to help investors make make an informative decision in the research process.

You will find a a summarized review of the following main key point::

- Contract's source code
- Project and team
- Website
- Social media & online presence

**NOTE: We ONLY consider a project safe if they receive our "Certificate of Trust" NFT. This report only points out any potential red flags found in our analysis. Always do your own research before investing in a project.**

# Smart Contract Review

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities

- Assessing the codebase to ensure compliance with current best practices and industry standards.

- Ensuring contract logic meets the specifications and intentions of the client.

- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.

- Thorough line-by-line manual review of the entire codebase by industry experts.

*"The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal"*
*- SpyWolf Team*

# SpyWolf

# Smart Contract Summary

| | |
|---|---|
| Contract Name | HedgeToken |
| Ticker | HPAY |
| Contract | 0xc75aa1fa199eac5adabc832ea4522cff6dfd521a |
| Network | Binance Smart Chain |
| Language | Solidity |
| Tax | Buy: 18%<br>Sell: 20% |
| Initial Supply | 250,000,000 |
| Initial Burn | 200,575,875 |
| Circulating supply | 49,424,124 |
| Max supply | 1,000,000,000   – Mint Function available ⚠️ |
| MaxTxAmount | No Limit |
| Status | Not launched yet |

# Smart Contract Statistics

| | |
|---|---|
| Transfer Count | 54 |
| Uniq Senders | 6 |
| Uniq Receivers | 25 |
| Total Amount | 1487817393 HPAY |
| Median Transfer Amount | 104339 HPAY |
| Average Transfer Amount | 27552173 HPAY |
| First transfer date | 2021-12-12 |
| Last transfer date | 2022-01-31 |
| Age | 53 days |

# Featured Wallets

| FeeManager | 0xb1588ca2529ff4f1a8e21d6fe24ba6d0b6e000b0 |
|---|---|
| LP token address | Liquidity not provided yet |
| Deployer/Owner | 0x346abB57CfB43aD3Bb8210E3DD1dB12353160A0b |
| Reward Manager | 0x020f50300c85ee89cfcd73e1a46d55e9e9a93844 |

# Top 3 Unlocked Wallets

| Wallet 1 （1.57%) | 0x6c7f7aef7ca641202040970478e3a6235c9673a1 |
|---|---|
| Wallet 2 （1.26%) | 0x2a2873c29a93d90e164b72da332eca3a181d9983 |
| Wallet 3 （1.06%） | 0xf4efed3f70d86bb875ba70dd5701d8f9a006d046 |

## Issues Checking Status

| | |
|---|---|
| Design Logic | **Passed ✓** |
| Compiler warnings. | **Passed ✓** |
| Private user data leaks | **Passed ✓** |
| Timestamp dependence | **Passed ✓** |
| Integer Overflow and Underflow | **Passed ✓** |
| Race conditions and Reentrancy. Cross-function race conditions | **Passed ✓** |
| Possible delays in data delivery | **Passed ✓** |
| Oracle calls | **Passed ✓** |
| Front running | **Passed ✓** |
| DoS with Revert | **Passed ✓** |
| DoS with block gas limit | **Passed ✓** |
| Methods execution permissions | **Passed ✓** |
| Economy model | **Passed ✓** |
| The impact of the exchange rate on the logic | **Passed ✓** |
| Malicious Event log | **Passed ✓** |
| Scoping and Declarations | **Passed ✓** |
| Uninitialized storage pointers | **Passed ✓** |
| Arithmetic accuracy | **Passed ✓** |
| Cross-function race conditions | **Passed ✓** |
| Safe Zeppelin module | **Passed ✓** |
| Fallback function security | **Passed ✓** |

# Security Threats

### Owner can mint new tokens

```solidity
function mint(address to, uint256 amount) public virtual {
    require(hasRole(MINTER_ROLE, _msgSender()),
    "ERC20PresetMinterPauser: must have minter role to mint");
    _mint(to, amount);
}
```

### Owner can pause trading

```solidity
function pause() public virtual {
    require(hasRole(PAUSER_ROLE, _msgSender()),
     "ERC20PresetMinterPauser: must have pauser role to pause");
    _pause();
}
```

### Owner can change buy/sell Fees up to 100%

```solidity
function setBuyFee(uint8 newFee) external onlyRole(DEFAULT_ADMIN_ROLE) {
    require(newFee <= 100, "Fee cannot be greater than 100%");
    buyFee = newFee;
}

function setSellFee(uint8 newFee) external onlyRole(DEFAULT_ADMIN_ROLE) {
    require(newFee <= 100, "Fee cannot be greater than 100%");
    sellFee = newFee;
}
```

# Hedge pay Project & Team Review

According to their whitepaper:

Hedgepay is staking platform which will pay rewards in form of $BUSD and $HPAY to its users. The required staking amount to receive rewards is 1,000,000 $HPAY tokens. The future plans of Hedgepay are Dapp wallet UI, HedgePay fiat brige, cross-chain integration, collateral and lending, AI guided investment customization, HedgePay card and payment processing services.

**Team**:

    KYCed with PinkSale

# Website Analysis

**Website URL:** hedgepay.org

- **Design:** Nice color gradient and overall layout.
- **Content:** The information helps new investors understand what the product does right away. No grammar errors found.
- **Whitepaper:** Well written and explanatory.
- **Roadmap:** Well defined goals.
- **Mobile-friendly?** Yes
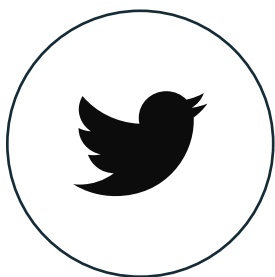- **Technical:** SSL certificate present. General SEO check passed.

How it Works    Economics    Upcoming Features    About Us    Applications ▾    **Connect Wallet**

### HedgePay automatically secures your investment on the blockchain

By utilizing our proprietary HedgeFi risk-reduction algorithm, you can customize your own personal payroll. Simply meet the minimum HedgePay balance to generate your individual cryptocurrency salary[1]. Accessible, secure, and unique. Secure your financial freedom indefinitely.

**hedgepay.org**

# Social Media & Online Presence

### Telegram

https://t.me/hedgepay

_____

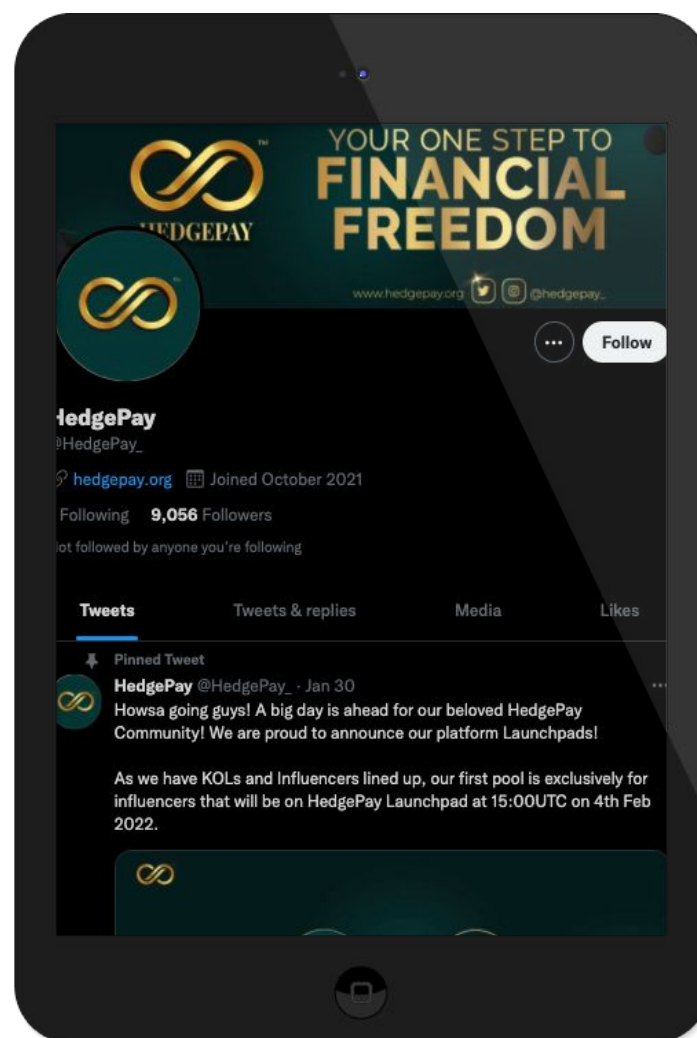- 8,785 members

- Few active members

- Active devs & mods



### Twitter

https://twitter.com/HedgePay_

_____

- 9,054 Followers

- Active

- Low engagement from audience

- ⚠️ Botted posts

# About SpyWolf

SpyWolf is a team of crypto security experts that have been performing full audits for projects for the past months in order to ensure safety on the crypto space. Our goal is to help eliminate monetary fraud through our auditing services and utility token, $SPY.

▶ Website: SpyWolf.co

▶ Portal: SpyWolf.network

▶ Telegram: @SpyWolfNework

▶ Twitter: Twitter.com/SpyWolfNetwork



(Sample Certificate NFT for those who pass audit)

**If you are interested in finding out more about our audits and Certificate of Trust NFTs, reach out to contact@spywolf.co.**

# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

**DISCLAIMER:**

By reading this report or any part of it, you agree to the terms of this disclaimer. If you do not agree to the terms, then please immediately cease reading this report, and delete and destroy any and all copies of this report downloaded and/or printed by you. This report is provided for information purposes only and on a non-reliance basis, and does not constitute investment advice.

No one shall have any right to rely on the report or its contents, and SpyWolf and its affiliates (including holding companies, shareholders, subsidiaries, employees, directors, officers and other representatives) (SpyWolf) owe no duty of care towards you or any other person, nor does SpyWolf make any warranty or representation to any person on the accuracy or completeness of the report.

The report is provided "as is", without any conditions, warranties or other terms of any kind except as set out in this disclaimer, and SpyWolf hereby excludes all representations, warranties, conditions and other terms (including, without limitation, the warranties implied by law of satisfactory quality, fitness for purpose and the use of reasonable care and skill) which, but for this clause, might have effect in relation to the report. Except and only to the extent that it is prohibited by law, SpyWolf hereby excludes all liability and responsibility, and neither you nor any other person shall have any claim against SpyWolf, for any amount or kind of loss or damage that may result to you or any other person (including without limitation, any direct, indirect, special, punitive, consequential or pure economic loss or damages, or any loss of income, profits, goodwill, data, contracts, use of money, or business interruption, and whether in delict, tort (including without limitation negligence), contract, breach of statutory duty, misrepresentation (whether innocent or negligent) or otherwise under any claim of any nature whatsoever in any jurisdiction) in any way arising from or connected with this report and the use, inability to use or the results of use of this report, and any reliance on this report. The analysis of the security is purely based on the smart contracts, website, social media and team.

No applications were reviewed for security. No product code has been reviewed.